

MEMORANDUM



Date: June 26, 2007

To: Honorable Chairman Bruno A. Barreiro
and Members, Board of County Commissioners

Agenda Item No. 8(R)3(D)

From: George M. Burgess
County Manager

A handwritten signature in black ink, appearing to read "Burgess", written over the printed name of George M. Burgess.

Subject: Request to Advertise for South District Wastewater Treatment Plant, HLD Upgrade to 285 MGD,
Yard Piping, - Project No: N/A; Contract No: S-813

Recommendation

This Request to Advertise for Construction Contract No. S-813 has been prepared by the Miami-Dade Water and Sewer Department (MDWASD) and is recommended for approval pursuant to Sections 2-8.1 of the Code of Miami-Dade County. This project is one in a series of projects under the High Level Disinfection (HLD) Program to comply with Consent Order No. 03-1376 negotiated by Miami-Dade County and the Florida Department of Environmental Protection (FDEP) and to meet regulatory requirements resulting from a rule change implemented by the US Environmental Protection Agency (USEPA) to meet effluent quality standards for deep well disposal. Upon the completion of the entire project, the South District Wastewater Treatment Plant (SDWWTP) will be rated at 285 million gallons per day (MGD), a chart is attached showing the different upgrades that make-up the HLD Facility Project.

Scope

PROJECT NAME: South District Wastewater Treatment Plant, HLD Upgrade to 285 MGD, Yard Piping

PROJECT NO: N/A

CONTRACT NO: S-813

PROJECT DESCRIPTION: The work consists of furnishing all materials, labor, and equipment necessary for the construction of yard piping at the SDWWTP.

The project includes, but it is not limited to the following: furnishing and installing approximately 2,700 linear feet of 120-inch, 108-inch, 96-inch, and 84-inch pre-stressed concrete cylinder pipe and fittings; furnishing and installing approximately 3,000 linear feet of 48-inch and 36-inch ductile iron pipe and fittings for backwash waste; furnishing and installing two 36-inch knife gate valves, and six plug valves; furnishing and installing approximately 330 linear feet of 20-inch and 12-inch ductile iron pipe and fittings for gravity sewer; furnishing and installing approximately 820 linear feet of 16-inch and 8-inch ductile iron pipe and fittings for sewage applications; furnishing and installing approximately 280 linear feet of 12-inch ductile iron pipe and fittings for potable water; furnishing and installing approximately 100 linear feet of 12-inch polyvinyl chloride C-900 pipe and ductile iron fittings for reuse water; and furnishing and installing approximately 360 linear feet of 8-inch flanged ductile iron rubber lined pipe and fittings for chlorine solution. Also, as part of the work is the removal and

relocation of existing yard piping; furnishing and installing pre-cast concrete manholes; making connections to existing piping; furnishing and installing air release valve assemblies; cleaning and testing the pipe; temporary bypass pumping for sanitary sewer relocation; making connections to Grit Chambers 1 and 2; pavement restoration; coordination with plant personnel to avoid interruption of service; complying with security restrictions; and all other appurtenant and miscellaneous items and work for a complete installation.

It is MDWASD's intent to obtain a complete functional, and satisfactory installation under this project, and any items of labor, equipment or materials which may be reasonably assumed as necessary to accomplish this end shall be supplied whether or not they are specifically shown on the plans or stated in the specifications. The contractor shall provide all sheeting, shoring, bracing and all other labor, material or equipment required to preclude damage to, or loss of functionality of, any existing facility or system.

PROJECT LOCATION: 23300 SW 88th Avenue, in Miami-Dade County, Florida

PRIMARY COMMISSION DISTRICT: District 8 Katy Sorenson

APPROVAL PATH: Board of County Commissioners

USING DEPARTMENT: Miami-Dade Water and Sewer Department

MANAGING DEPARTMENT: Miami-Dade Water and Sewer Department

Fiscal Impact / Funding Source

FUNDING SOURCE:	<u>SOURCE</u>	<u>AMOUNT</u>
	WASD Revenue Bonds Sold and Wastewater Connection Charges	<u>\$14,000,000.00</u>

PTP FUNDING: No

GOB FUNDING: No

CAPITAL BUDGET PROJECT:	<u>BUDGET PROJECT / DESCRIPTION</u>	<u>RTA ESTIMATE</u>
	96510240-SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION Book Page: 310, Volume 3 Funding Year: 2006-2007	<u>\$14,000,000.00</u>

PROJECT TECHNICAL CERTIFICATION REQUIREMENTS: One of the following licenses is required: General Engineering, State Underground, Pipeline and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

ESTIMATED CONTRACT PERIOD: 540 Consecutive Calendar Days

ESTIMATED CONTINGENCY 54

PERIOD:

IG FEE INCLUDED IN BASE CONTRACT: Yes

ART IN PUBLIC PLACES: No

BASE ESTIMATE: \$12,438,000.00

CONTINGENCY ALLOWANCE (SECTION 2-8.1 MIAMI DADE COUNTY CODE):	TYPE	PERCENT	AMOUNT	COMMENT
	Infrastructure	10%	\$1,243,800.00	

PERMIT FEES : \$318,200.00 2.60%

TOTAL DEDICATED ALLOWANCE: \$318,200.00

COST ESTIMATE: \$14,000,000.00

Track Record / Monitor

EXPLANATION: Upgrade the South District Wastewater Treatment Plant to 285 MGD.

MINIMUM QUALIFICATIONS EXCEED LEGAL REQUIREMENTS: No

REVIEW COMMITTEE: **MEETING DATE:** 5/2/2007 **SIGNOFF DATE:**

RESPONSIBLE WAGES: Yes

REVIEW COMMITTEE ASSIGNED CONTRACT MEASURES:	MEASURE	GOAL	COMMENT
	CSBE	3.00%	

MANDATORY CLEARING HOUSE: Yes

CONTRACT MANAGER NAME/PHONE/EMAIL: John W. Chorlog, Jr. (786) 552-8102 jwcho01@miamidade.gov

PROJECT MANAGER NAME/PHONE/EMAIL: Alma M. Santiago, P.E. (786)552-8243 AS1@miamidade.gov

Background

BACKGROUND:

This project consists of constructing the necessary yard piping at the SDWWTP. This is one in a series of projects under the HLD Program to comply with Consent Order No. 03-1376 negotiated by Miami-Dade County and FDEP and to meet regulatory requirements resulting from a rule change implemented by the USEPA to meet effluent quality standards for deep well disposal. Upon the completion of the entire project, the SDWWTP will be rated as a 285 MGD plant.

BUDGET APPROVAL
FUNDS AVAILABLE: 


OSBM DIRECTOR

5/29/07
DATE

ACCEPTED 

APPROVED AS TO
LEGAL SUFFICIENCY:


COUNTY ATTORNEY

5/23/07
DATE

ACCEPTED


ASSISTANT COUNTY
MANAGER

5/30/07
DATE

ACCEPTED

CLERK DATE

DATE

**SOUTH DISTRICT WASTEWATER TREATMENT PLANT, HLD UPGRADE TO
285 MGD, YARD PIPING**

CONTRACT NO: S-813

**BUDGET PROJECT AND
DESCRIPTION:**

96510240-SOUTH DISTRICT WASTEWATER
TREATMENT PLANT - HIGH LEVEL DISINFECTION

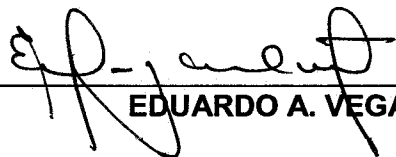
FUNDING SOURCE:

WASD REVENUE BONDS SOLD AND WASTEWATER
CONNECTION CHARGES

INDEX CODES:

S047650

**ASSISTANT DIRECTOR,
ENGINEERING AND CAPITAL
IMPROVEMENTS:**

 5/14/07

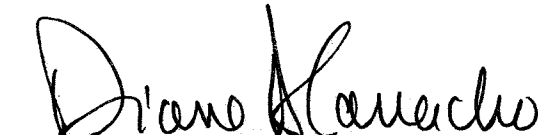
EDUARDO A. VEGA, PE DATE

**BUDGET AND CAPITAL
FUNDING COORDINATION:**

 5/14/07

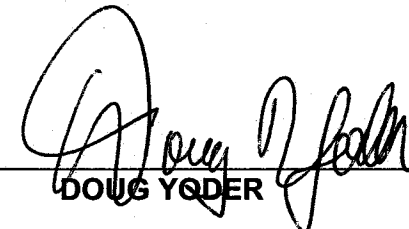
PEDRO VELAR DATE

**ASSISTANT DIRECTOR,
FINANCE AND INFORMATION
TECHNOLOGY:**

 5/14/07

DIANE CAMACHO DATE

**DEPUTY DIRECTOR,
REGULATORY COMPLIANCE AND
CAPITAL IMPROVEMENTS:**

 5/14/07

DOUG YODER DATE

MIAMI-DADE WATER AND SEWER DEPARTMENT
 Projection by Project Sub-project by Year - Wastewater
 As of: 9/30/2005

Proj	Sub-Proj	Sub-Project Description	Current Bond/Fund Allocation	Expenditures Remaining As of 9/30/2005	PROJECTIONS										
					2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	Total
1036	101665	SDWWTP - 1 MGD COASTAL WETLANDS REHYDRATION	6,600,000	0	100,000	1,000,000	5,500,000	0	0	0	0	0	0	0	6,600,000
	101671	20,000 GPD WELLFIELD RECHARGE	1,025,000	0	0	90,000	935,000	0	0	0	0	0	0	0	1,025,000
		TOTAL - 1036	23,013,980	13,782	277,291	6,287,907	16,435,000	0	0	0	0	0	0	0	23,000,198
1037	101527	SDWWTP - EFFLUENT DISPOSAL WELLS - ONSITE	4,988,353	38,353	50,000	100,000	200,000	0	0	0	0	0	0	4,600,000	4,950,000
	101618	SDWWTP - DEEP BED SAND FILTERS	125,386,725	0	0	2,205,662	35,431,865	50,111,670	35,431,865	2,205,663	0	0	0	0	125,386,725
	101619	SDWWTP - FINAL CLARIFIERS AND INTERIM IMPROVEMENTS	83,905,674	0	0	0	15,802,856	37,315,399	28,940,681	1,846,738	0	0	0	0	83,905,674
	101620	SDWWTP - PROCESS CONTROLS AND INSTRUMENTATION	1,522,750	0	0	0	286,796	677,213	525,226	33,515	0	0	0	0	1,522,750
	101621	SDWWTP - DISINFECTION FACILITIES/CHLORINE TANKS	114,266,550	0	0	0	21,521,044	50,817,804	39,412,731	2,514,971	0	0	0	0	114,266,550
	101622	SDWWTP - YARD PIPING	12,066,162	0	0	0	2,272,350	5,366,188	4,161,851	265,573	0	0	0	0	12,066,162
	101623	SDWWTP - ELECTRICAL SERVICE/GENERATORS	34,164,129	0	0	0	6,434,497	15,193,825	11,783,865	751,942	0	0	0	0	34,164,129
	101624	SDWWTP - LOW LIFT TRANSFER PUMP STATION	26,300,613	0	0	0	4,953,477	11,696,681	9,071,587	578,869	0	0	0	0	26,300,613
	101625	SDWWTP - FINAL SITE PAVING, GRADING AND DRAINAGE	2,936,904	0	0	0	553,139	1,306,130	1,012,995	64,640	0	0	0	0	2,936,904
	101627	SDWWTP - SLUDGE HANDLING IMPROVEMENTS	10,475,134	0	0	0	1,972,895	4,658,610	3,613,075	230,554	0	0	0	0	10,475,134
	101636	SDWWTP - DESIGN AND ENGINEERING SERVICES	59,803,646	6,029,329	10,484,063	16,209,677	13,428,545	7,514,104	4,746,350	1,392,178	0	0	0	0	53,774,317
	101669	OXYGENATION PROCESS TRAIN 7	11,231,183	0	0	0	2,115,289	4,994,848	3,873,831	247,195	0	0	0	0	11,231,183
	101670	EFFLUENT PUMP SYSTEM	18,490,186	0	0	0	3,482,455	8,223,147	6,377,621	406,963	0	0	0	0	18,490,186
		TOTAL - 1037	505,538,009	6,067,682	10,534,063	18,514,539	108,455,408	197,875,619	148,951,698	10,538,800	0	0	0	4,600,000	499,470,327
		TOTAL - Wastewater	2,159,736,208	122,564,633	76,529,885	122,103,844	235,834,145	296,366,522	292,853,251	118,800,613	196,488,908	204,168,757	178,850,809	315,175,142	2,037,171,576

STRATEGIC AREA: Neighborhood and Unincorporated Area Municipal Services
DEPARTMENT: Water and Sewer

***** FUNDED PROJECTS *****
(dollars in thousands)

SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION

PROJECT # 96510241

DESCRIPTION: Construct treatment facilities for high level disinfection to meet regulatory requirements

LOCATION: 8950 SW 232 St

Unincorporated Miami-Dade County

DISTRICT LOCATED: 8

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

DISTRICT(s) SERVED: Systemwide

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	28,220	3,838	19,883	16,902	11,361	2,570	0	0	82,774
State Revolving Loan Wastewater Program	0	0	0	55,000	45,000	0	0	0	100,000
WASD Revenue Bonds Sold	94,462	0	0	0	0	0	0	0	94,462
Future WASD Revenue Bonds	0	0	0	223,702	0	0	0	4,600	228,302

TOTAL REVENUE:	122,682	3,838	19,883	295,604	56,361	2,570	0	4,600	505,538
-----------------------	----------------	--------------	---------------	----------------	---------------	--------------	----------	--------------	----------------

EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	1,511	1,685	9,868	18,005	13,553	959	0	419	46,000
Construction	15,091	16,830	98,587	179,870	135,399	9,580	0	4,181	459,538

TOTAL EXPENDITURES:	16,602	18,515	108,455	197,875	148,952	10,539	0	4,600	505,538
----------------------------	---------------	---------------	----------------	----------------	----------------	---------------	----------	--------------	----------------

SOUTH DISTRICT WASTEWATER TREATMENT PLANT EXPANSION - PHASE III

PROJECT # 9655481

DESCRIPTION: Expand the South District Wastewater Plant and injection wells; and install emergency generators

LOCATION: 8950 SW 232 St

Unincorporated Miami-Dade County

DISTRICT LOCATED: 8

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

DISTRICT(s) SERVED: Systemwide

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	7,000	0	0	1,000	1,000	3,000	2,000	0	14,000
Future WASD Revenue Bonds	0	0	0	0	0	0	60,000	21,000	81,000

TOTAL REVENUE:	7,000	0	0	1,000	1,000	3,000	62,000	21,000	95,000
-----------------------	--------------	----------	----------	--------------	--------------	--------------	---------------	---------------	---------------

EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	0	0	0	136	318	637	2,912	4,641	8,644
Construction	0	0	0	1,364	3,182	6,363	29,088	46,359	86,356

TOTAL EXPENDITURES:	0	0	0	1,500	3,500	7,000	32,000	51,000	95,000
----------------------------	----------	----------	----------	--------------	--------------	--------------	---------------	---------------	---------------



Dept. of Business Development
Project Worksheet

Project/Contract Title: SOUTH DISTRICT WASTEWATER TREATMENT PLANT, HLD UPGRADE TO 285 MGD, YARD PIPING (SIC 16) RC Date: 05/02/2007 3-06
Project/Contract No: S-813
Department: WATER & SEWER DEPARTMENT Funding Source: WASD REV BONDS&WW Item No:
Estimated Cost of Project/Bid: \$14,000,000.00 Conn. Charge Resubmittal Date(s):
Description of Project/Bid: THE SCOPE OF WORK CONSISTS OF FURNISHING ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF YARD PIPING AT THE SOUTH DISTRICT WASTEWATER TREATMENT PLANT, LOCATED AT 23300 S.W. 88th AVENUE, IN MIAMI-DADE COUNTY, FLORIDA. THE PROJECT IS ONE IN A SERIES OF PROJECTS UNDER THE HIGH LEVEL DISINFECTION (HLD) PROGRAM TO COMPLY WITH A CONSENT DECREE IMPOSED BY THE ENVIRONMENTAL PROTECTION (EPA) TO RESOLVE TREATED EFFLUENT DISPOSAL ISSUES. ONCE THE PROGRAM IS COMPLETED, THE PLANT WILL BE RATED AT 295 MILLION GALLONS PER DAY (MGD).

Contract Measures Recommendation

Measure	Program	Goal Percent
Goal	CSBE	2.57%

Reasons for Recommendation

An analysis of the factors contained in Section VI C of Administrative Order 3-22 indicate that a 3% goal is appropriate for this project in the trade category of pipe installation (Water, Sewer, and Pipeline Construction).

CWP Not Applicable: Not in DTA


Analysis for Recommendation of a Goal

Subtrade	Cat.	Estimated Value	% of Items to Base Bid	Availability
Water, Sewer, and Pipeline Construction	CSBE	\$359,800.00	2.57%	23
Total		\$359,800.00	2.57%	

Living Wages: YES ☐ NO ☒ Highway: YES ☐ NO ☒ Heavy Construction: YES ☒ NO ☐
Responsible Wages: YES ☒ NO ☐ Building: YES ☐ NO ☒

Ordinance 90-143 is applicable to all construction projects over \$100,000 that do not utilize Federal Funds

REVIEW COMMITTEE RECOMMENDATION

Tier 1 Set Aside _____
Set Aside _____ Level 1 _____ Level 2 _____ Level 3 _____
Trade Set Aside (MCC) _____ Goal 3% CSBE Bid Preference _____
No Measure _____ Deferred _____ Selection Factor _____
 5/2/07
Chairperson, Review Committee Date _____ County Manager Date _____

SDWWTP High Level Disinfection (HLD) 285 mgd - Bid Packages

MIAMI-DADE

